

Biomax AILANI™ version 2.0 Release Notes

Artificial Intelligence Language Interface

Version Information

These release notes are current as of April 2021

Supported client platforms and operating systems

The AILANI semantic search platform version 2 is a zero-footprint Web application. No additional software is required beyond one of the supported Web Browsers.

Supported Web Browsers are:

- Microsoft Edge based on the Chromium Web engine (Version 79 or higher)
- Google Chrome Version 79 or higher
- Mozilla Firefox Version 78 or higher
- Apple Safari Version 13 or higher

Note that usage of a Chromium/Blink-based Browser (Chrome, Edge) or a WebKit-based Browser (Safari) is recommended. The JavaScript Performance of Mozilla Firefox significantly lags behind those browsers, resulting in an inferior user experience.

Note that usage of the Microsoft Edge compatibility mode with Internet Explorer 11 (IE Mode) is not supported. In addition, Legacy Edge mode emulating the EdgeHTML engine instead of Chromium is also not supported.

Supported Operating Systems are:

- Microsoft Windows 10 on Desktop or Laptop Computers and Tablets
- Apple macOS 10.15 or macOS 11.x on Desktop or Laptop Computers
- Apple iOS 13 or higher on iPad

Note that usage on small mobile devices (mobile phones) is not yet fully supported.

New in AILANI version 2

Modern look-and-feel

Introduction of the latest web technologies allow for an easy and fast customization by configuration-only to improve user experience and provide organization-specific look-and-feel.

Introduction of toolbar

The newly introduced toolbar is present by default within the public version of AILANI and enables fast access to

- My Search History
- Bookmark Browser
- Tag Browser
- My Scheduled Alerts

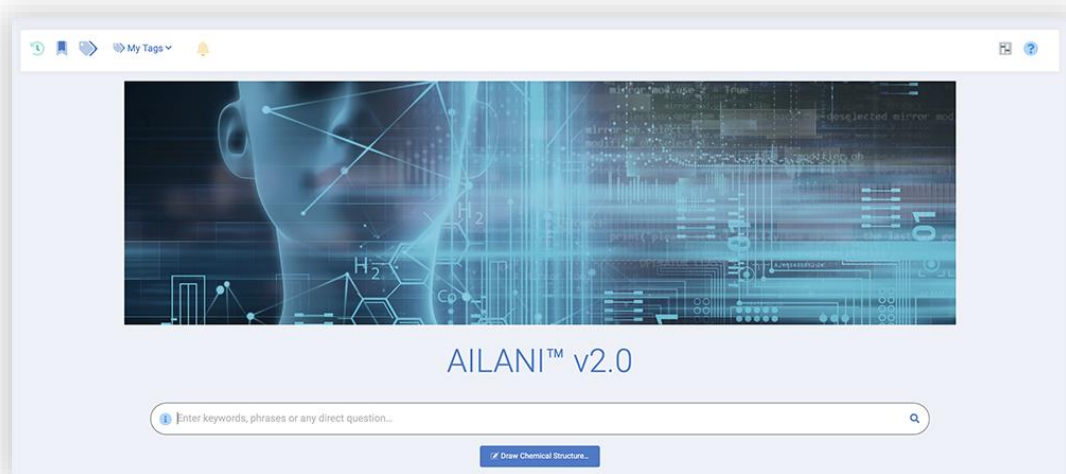


Fig. 1a Toolbar

Within AILANI Cloud and Enterprise solutions additional options are available:

- Display or hide toolbar
- Choice from a set of color schemes
- Choice of language

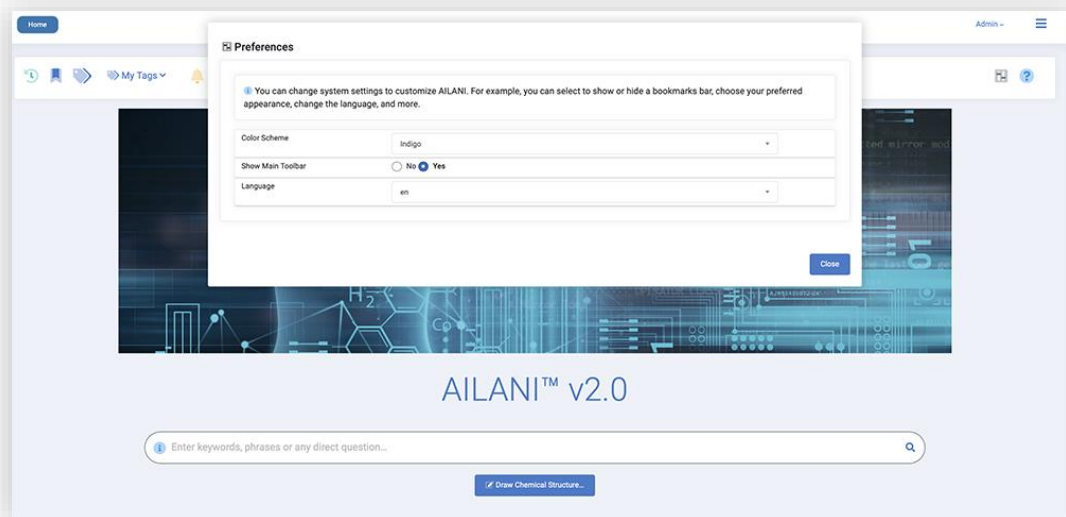


Fig. 1b My Preferences in AILANI Cloud and Enterprise solutions

Favorites renamed to Bookmarks

The Bookmark Browser allows for better organization of bookmarked items in four different tabs, such as:

- Bookmarked Searches
- Bookmarked Answers
- Bookmarked Documents
- Bookmarked Compounds

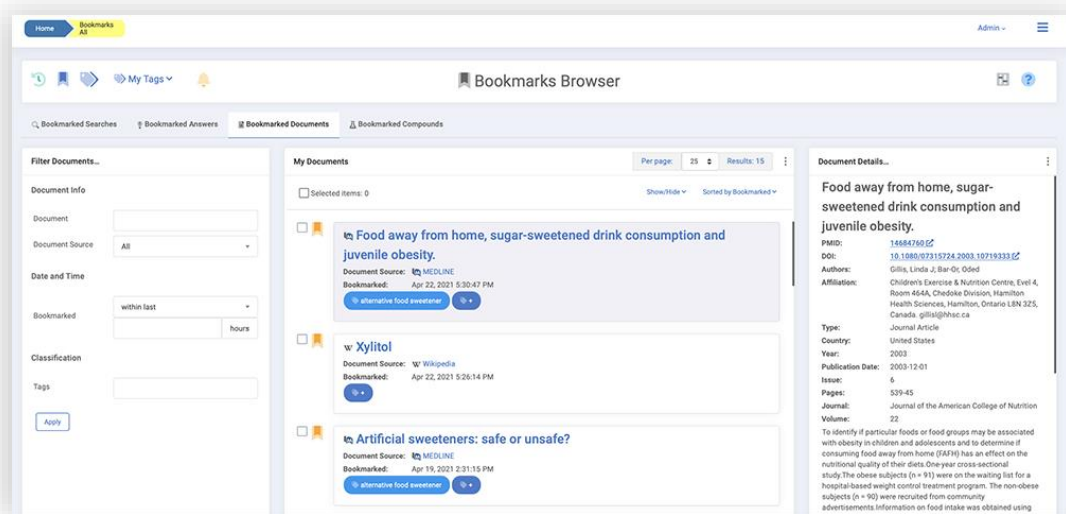


Fig. 2 Bookmark Browser

Introduction of (personalized) Tags

Bookmarked items can be further organized by adding personalized tags. Tags can also be given to not yet bookmarked items on results pages as well as individual reports. Within the Tags Browser user can manage their tags, by editing the name, changing the color of a tag or deleting a tag.

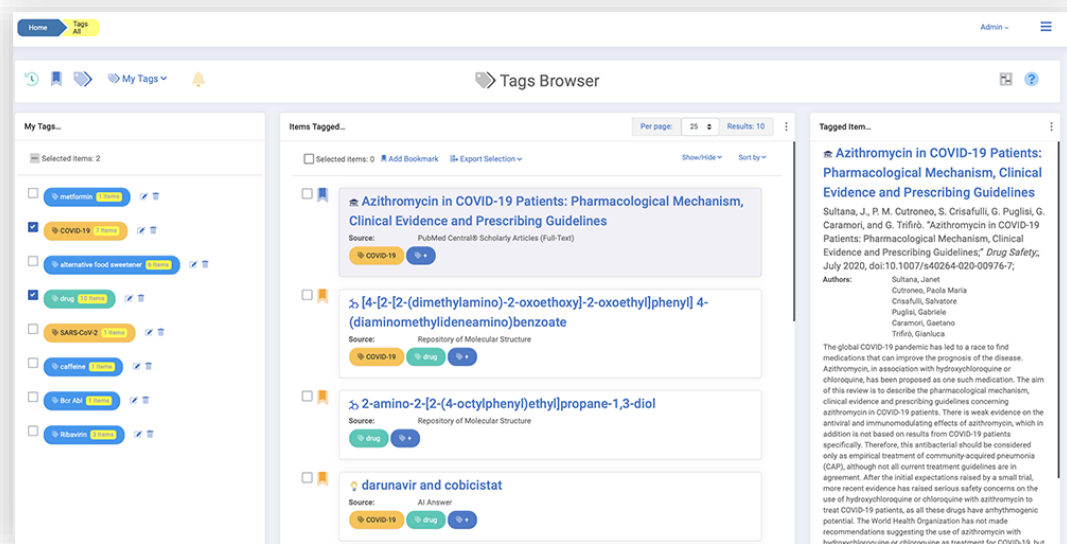


Fig. 3 Tag Browser

New Content

Selected science-related Wikipedia articles have been integrated.

Introduction of range slider and search boxes for refining results

For the Year refiner a range slider has been introduced (Fig. 4a). For the domain specific refiners based on ontologies a search box has been introduced for the sunburst diagrams (Fig. 4b).

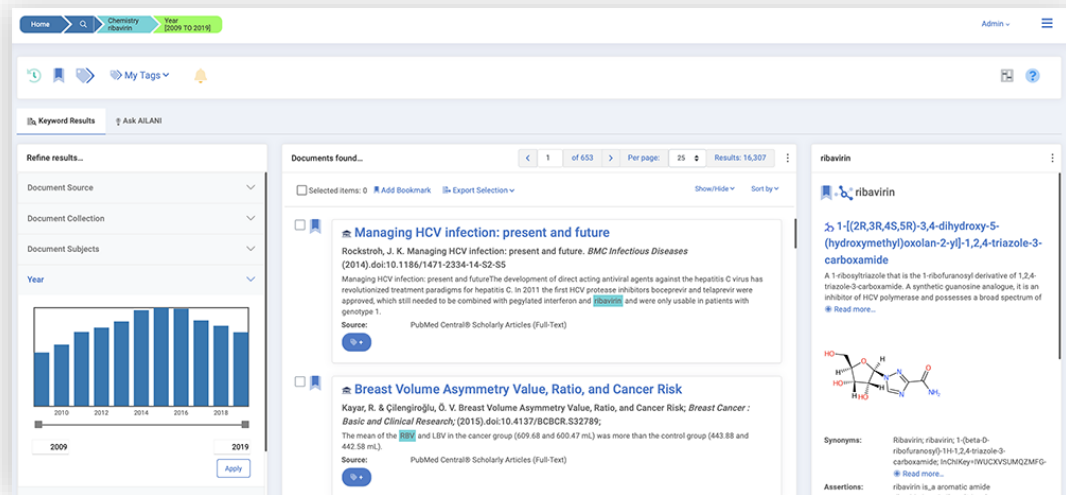


Fig. 4a Example of the Year range slider within the keyword results page

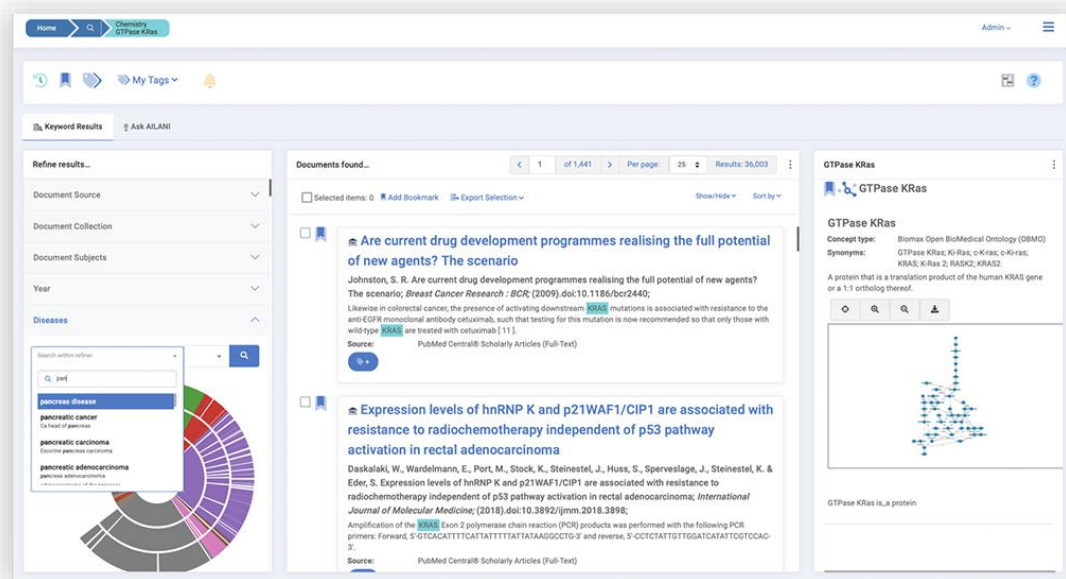


Fig. 4b Search box within Sunburst refiners

Extension of the “Question Answering” AI (Query-to-Question)

In addition to directly answering user-entered questions, the system also takes query phrases and keywords and “guesses” (Query-to-Question AI) and automatically generates a semantically correct natural language question which is being used to provide the answer. Users can provide feedback to the guesses AILANI provides.

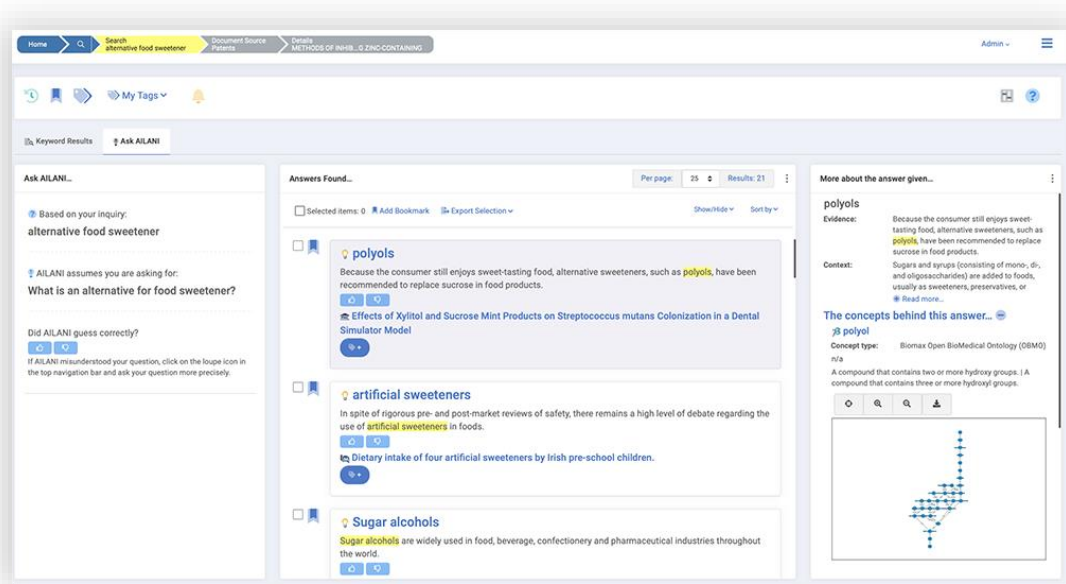


Fig. 5 Query-to-Question AI

Extension of Reports

Reports have been extended to display basis information in the left panel, Abstract, Full Text or chemical properties in the middle panel and Associated Content in the right panel (similar documents or compounds).

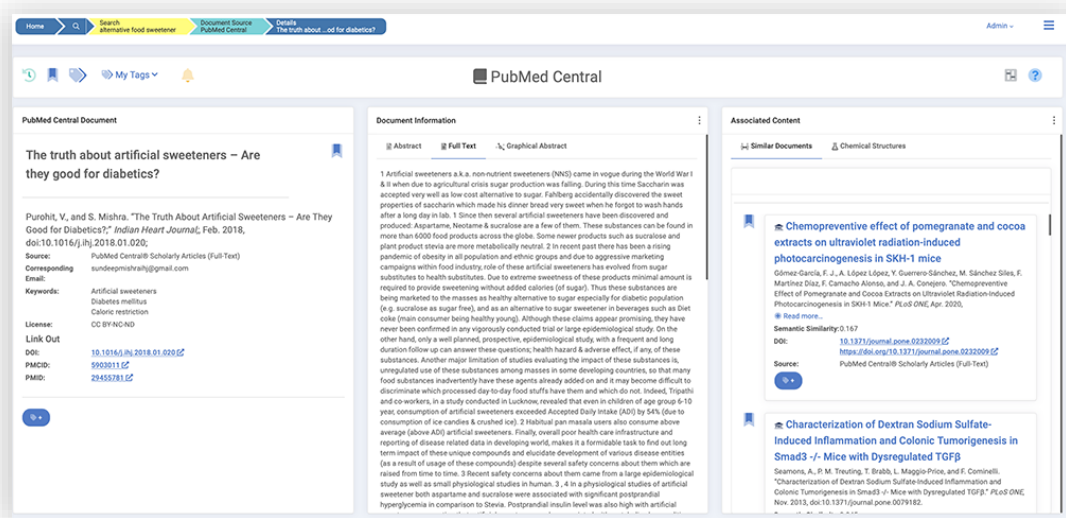


Fig. 6a PubMedCentral Report displaying metadata in the left panel, Abstract, Full Text, and Graphical Abstract in the middle panel, and similar documents in the right panel.

Fig. 6b Chemical Report for Camostat displaying Structure and links to other databases in the left panel, chemical properties in the middle panel, and similar compounds in the right panel based on a similarity search

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